

MAGNETIC STORM SUDDEN COMMENCEMENTS AND SOLAR FLARE EFFECTS (PRELIMINARY REPORT ON RAPID MAGNETIC VARIATIONS)

July 2002

Storm Sudden Commencements (SSC)			Solar Flare Effects (sfe)		
Day	Time	Quality: Station Group*	Day	Begin-End	Station(s)
17	1604	A: HYB B: VAL* COI C: EBR LIV* -: ETT	03	0209-0250	MMB+ KAK+ HTY+ KNY+ HYB ETT GNA+ CNB+
			04	0732-0750	MMB+ KAK+ HTY+ KNY+
19	1009	A: VAL* B: CLF* HRB NAG* SPT* HER C: DOU BDV EBR* HYB -: ETT	11	0913-0925	NAG
			11	1446-1504	NGK VAL BDV CLF
			15	0620-0636	HYB ETT GNA+ CNB+
			15	0627-0638	HER
25	1336	B: SOD* VAL* C: NGK* BDV* CLF* COI SPT* LIV*	15	2003-2025	MMB+ KAK+ KNY+
			18	0332-0350	MMB+ KAK+ HTY+ KNY+
29	1321	A: VAL* NAG* COI SPT* B: SOD* NGK* BDV* CLF* HRB EBR* HYB GNA CNB LIV* -: ETT	18	0741-0800	NGK BDV CLF MMB+ KAK+ KNY+ HYB ETT GNA+ HER
			23	0026-0055	MMB+ KAK+ KNY+
			29	0229-0301	HTY+
			29	0234-0255	MMB+ KAK+ KNY+
			30	1134-1152	NAG

REPORTING OBSERVATORIES (up to the 4th of September 2002):

SOD NUR NGK VAL DOU BDV CLF HRB NAG MMB EBR COI SPT KAK HTY KNY HYB ETT GNA HER CNB LIV

Three-letter codes identify each observatory. Reporting stations have been grouped by the character of the observed event. The letter A means very remarkable; B means fair, but unmistakable; C means very poor, doubtful; and - means no quality figure given. The * means that the SSC, at least in one component, was preceded by a small reversed impulse. SSCs are given only when five or more stations report the event. SFEs include all reports. If an SFE is confirmed by solar or ionospheric events, the name of the station is identified with a plus sign (+).

Note that we have included data of the Antarctic Station LIVINGSTONE (62° 39' 44" S, 60°23' 41" W) -- Luis F.